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In re application of: Bina Kunal Thakkar

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TRANSMITTAL OF FORMAL DRAWINGS

Please find attached:

- (a) the formal drawings for this application
Number of Sheets 43


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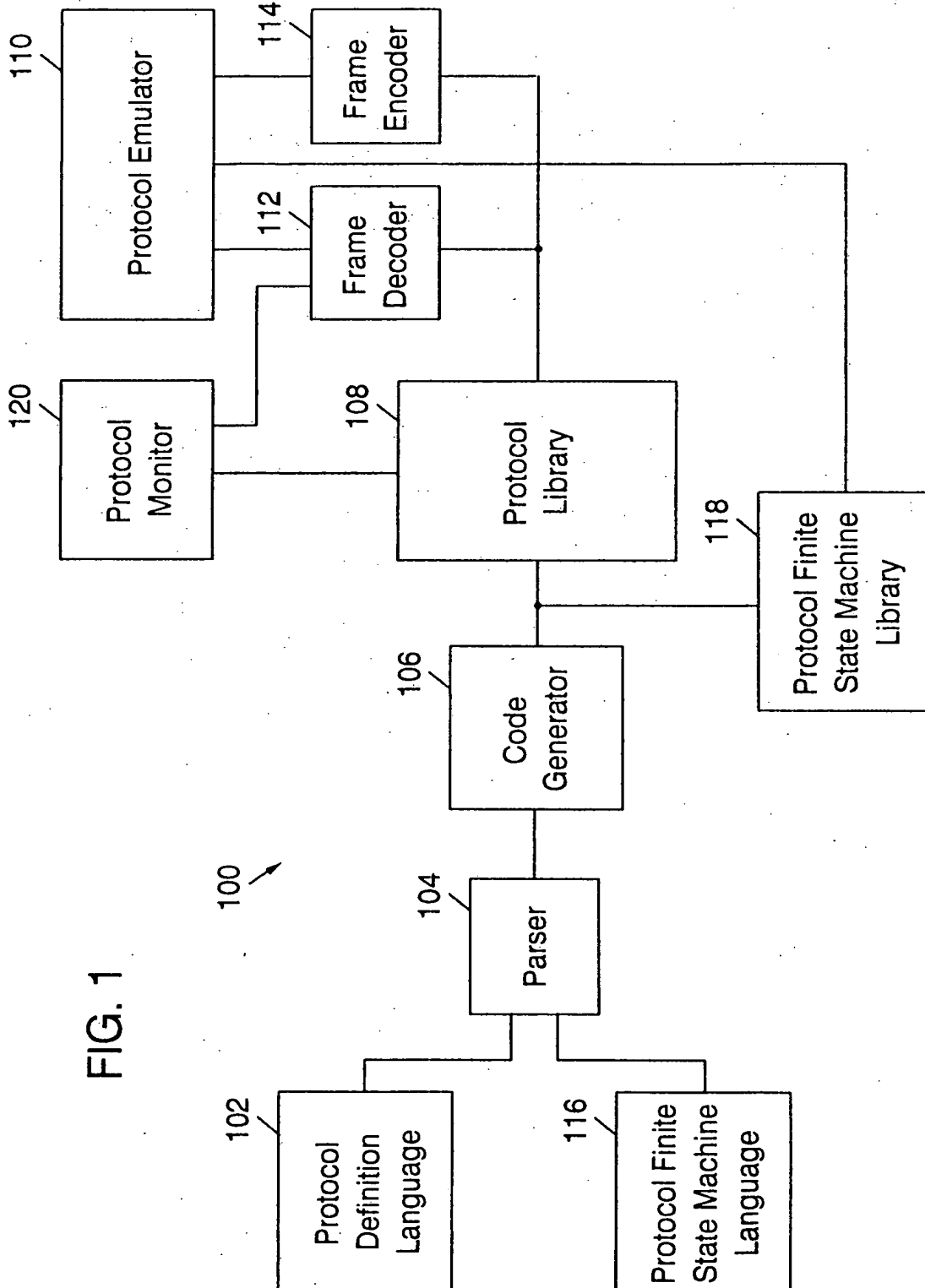


FIG. 1

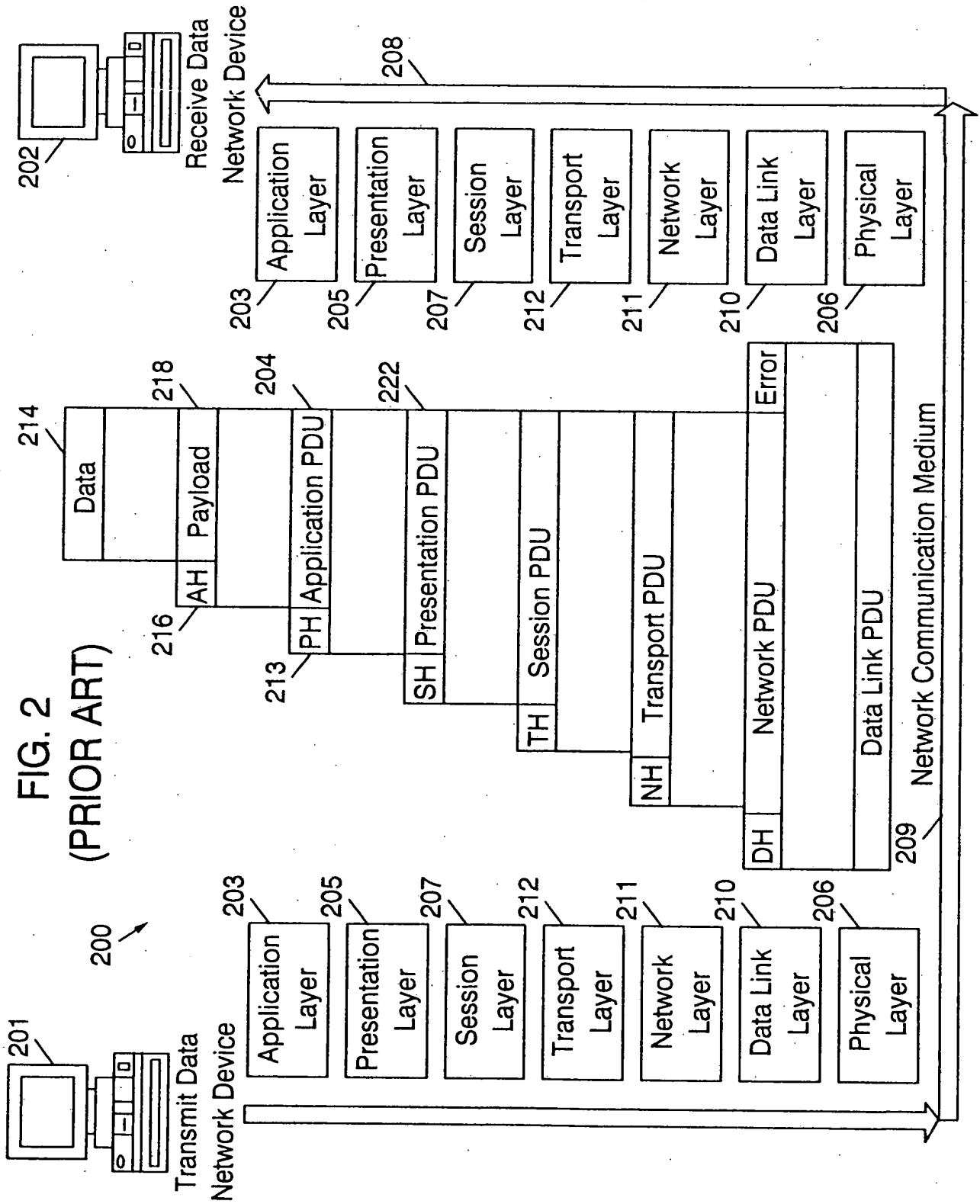


FIG. 3
(PRIOR ART)

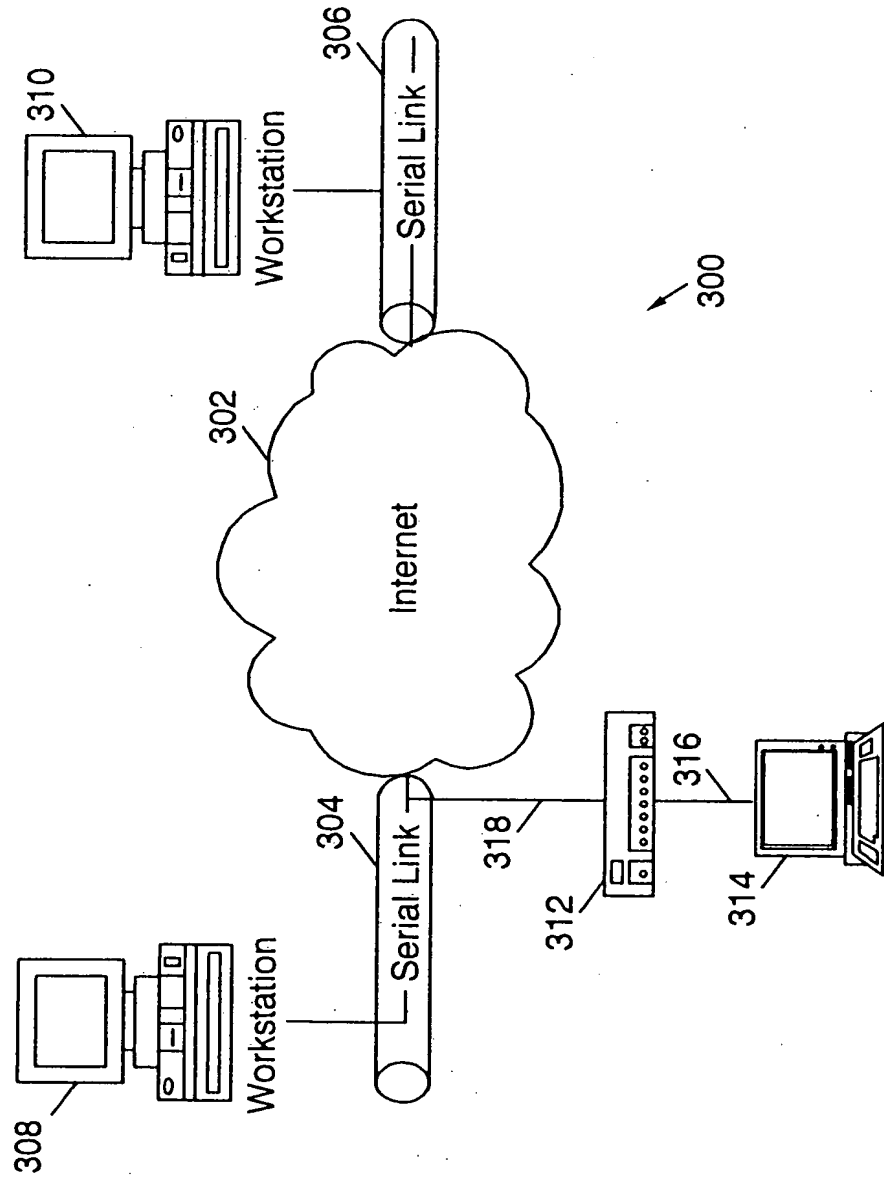
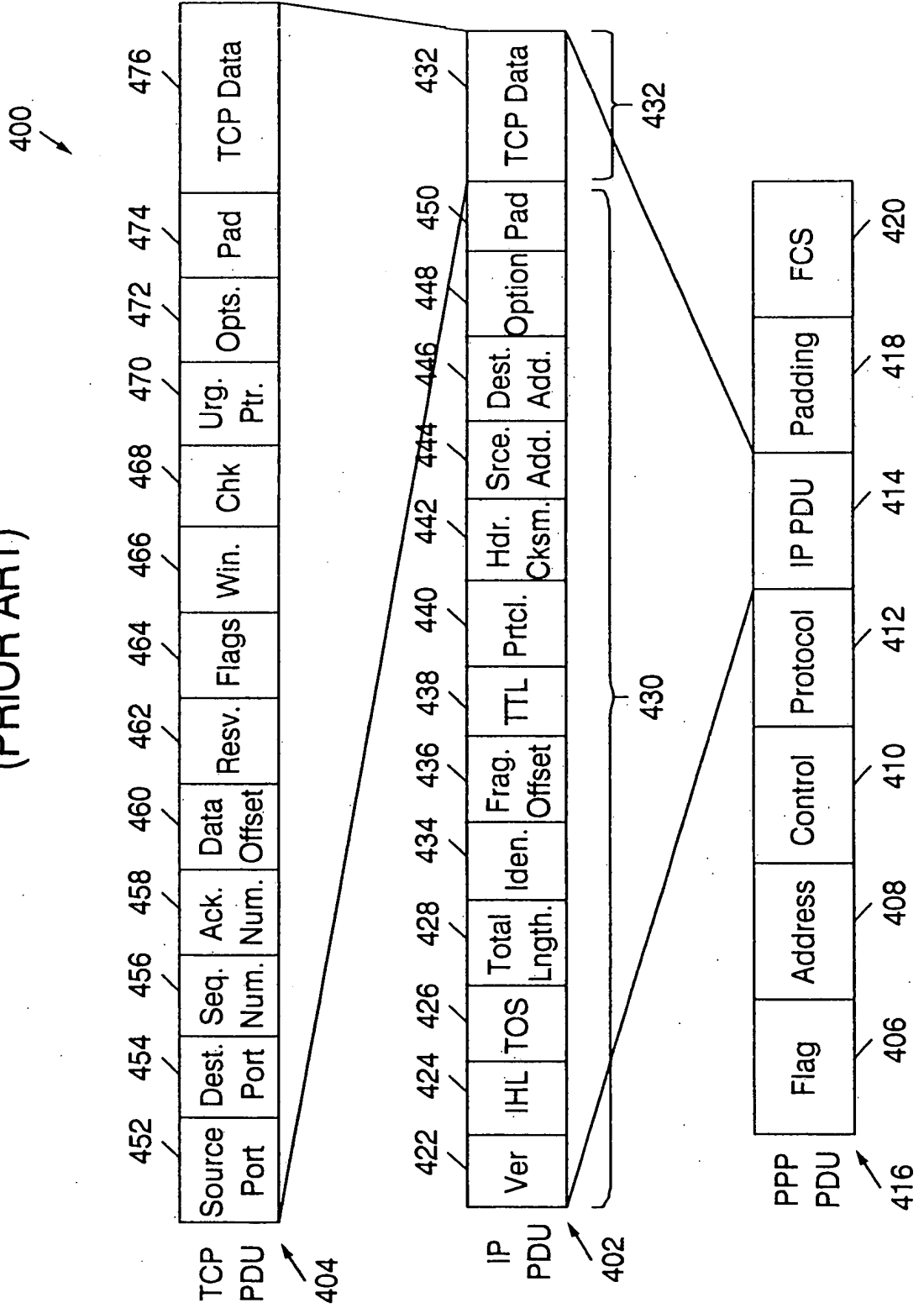


FIG. 4
(PRIOR ART)



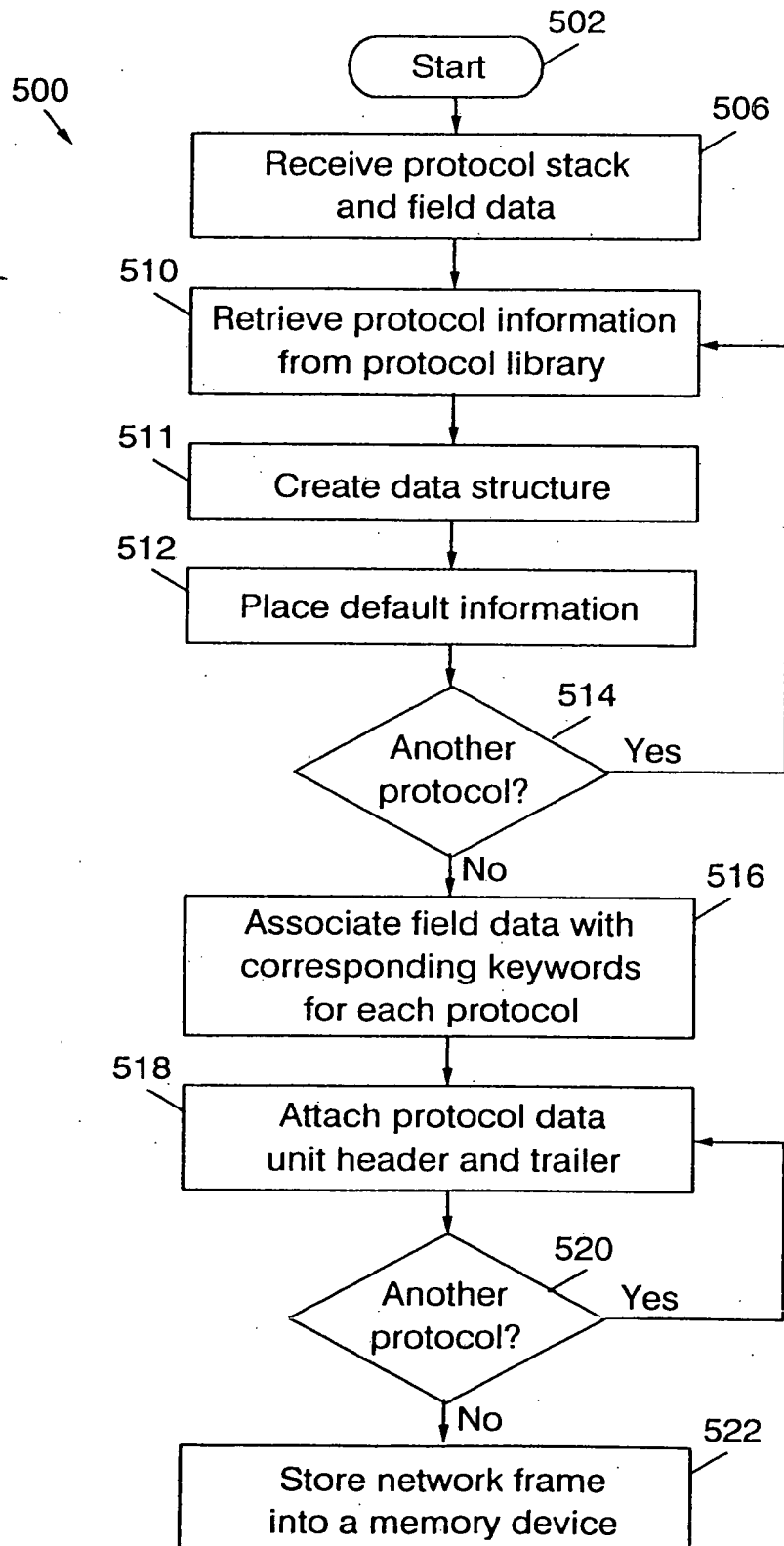


FIG. 6

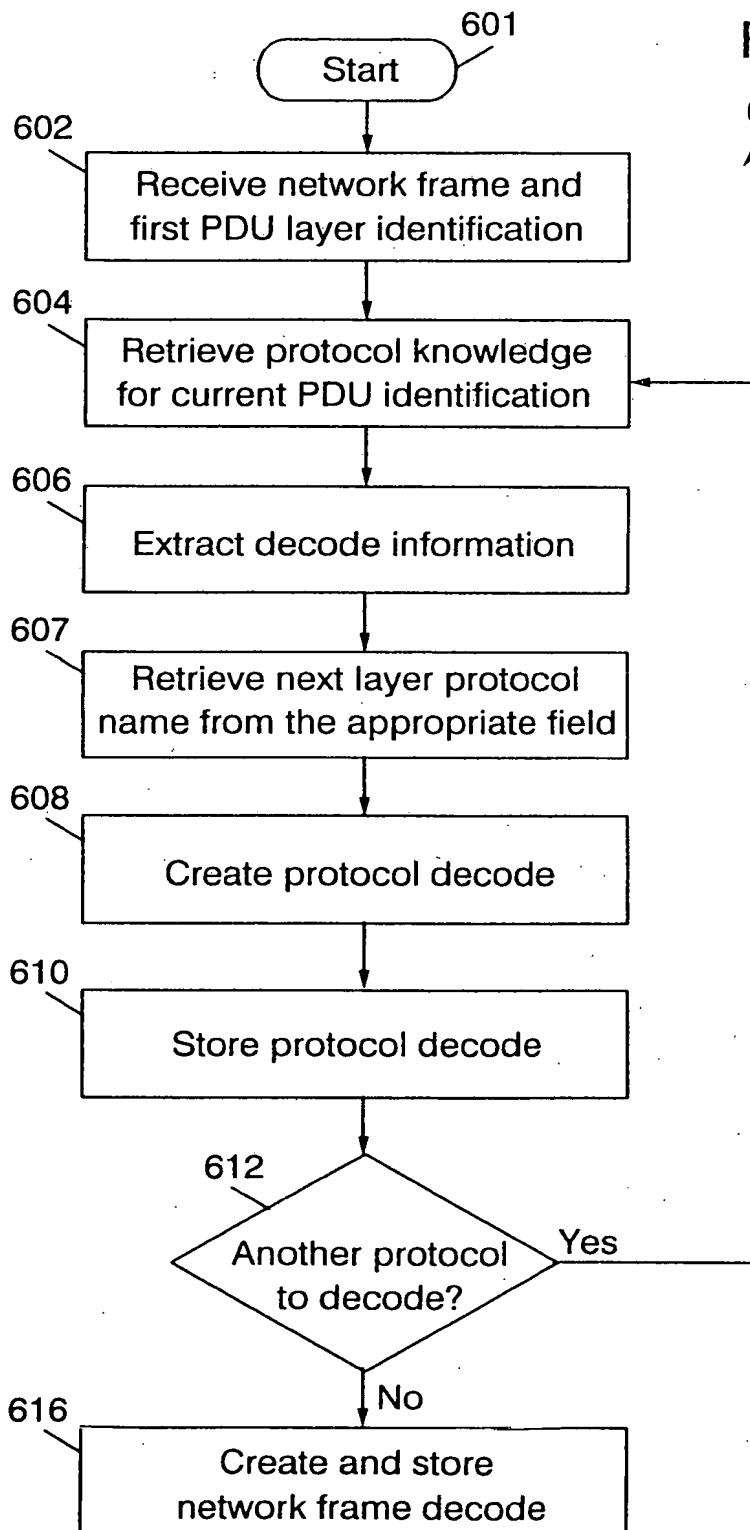


FIG. 7

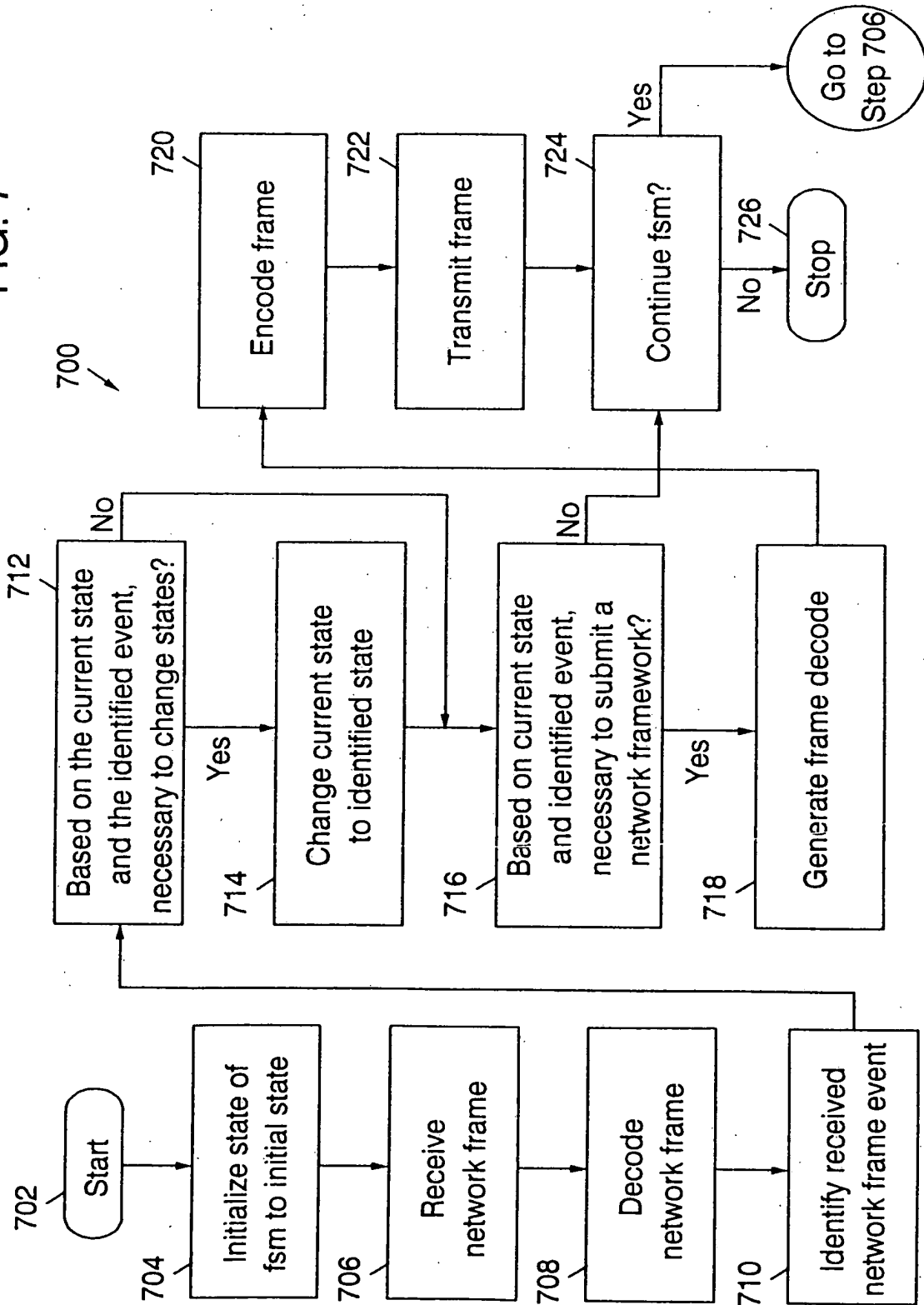


FIG. 8A

```
802
  protocol "IP" {// -----
    len=sizeof(field "Total Length")*8
    / minLen=20*8 //just header
    804 maxLen=65535*8
    / header "IP Header"
    806 / payload "IP Payload"
    808 header "IP Header" {// -----
810
  / len=sizeof(field "Header Length")*32
    812 / field "Version" 818
    816 / field "Header Length" /
    / compound_field "Type Of Service"
    814 / field "Total Length"
    824
    field "Identification" {len=16 default=291} / 820
    / compound_field "Flags"
    815 field "Fragment Offset" {len=13 desc="in 64 bits units"} / 822
    field "Time To Live" {len=8 default=30 desc="seconds"} / 826
    / field "Protocol" 830
    828 field "Header Checksum" /
    / field "Source IP Address" {len=32 display=ipv4 field_type=
832 must_encode}
    / field "Destination IP Address" {
834 len=32
    display=ipv4
    field_type = must_encode
  }
}
```

FIG. 8B

816

```
repeat {  
    len=sizeof(field "Header Length") - 5 ) * 32 // includes padding  
    compound_field "Options"  
}  
  
field "Version" {  
    len=4  
    default=4  
    possible_values={  
        0,15:"Reserved"  
        1-3:"Unassigned"  
        6-14:"Unassigned"  
        4:"IP Internet Protocol"  
        5:"ST ST Datagram Mode"  
    }  
}  
  
field "Header Length" {  
    len=4  
    minValue=5  
    desc="in 32 bit units"  
    default=eval_fn(len, "IP", "IP Header", "/32")  
}  
  
field "Total Length" {  
    minValue=20  
    len=16  
    desc="in octets include header length"  
    default=eval_fn(len, "IP", "IP", "/8")  
}  
  
field "Header Checksum" {  
    len=16  
    default=eval_fn(checksum, "IP", "IP Header")  
    display=hex  
}
```

FIG. 8C

```
compound_field "Type Of Service" { // -----
    display=hex
    field "precedence" {
        len=3
        possible_values= {
0:"Routine"
1:"Priority"
2:"Immediate"
3:"Flash"
4:"Flash override"
5:"CRITIC/ECP"
6:"Internetwork Control"
7:"Network Control"
}}

    field "Delay" {
        len=1
        possible_values={0:"normal" 1:"low"}}

    field "Throughput" {
        len=1
        possible_values={0:"normal" 1:"high"}}

    field "Reliability" {
        len=1
        possible_values={0:"normal" 1:"high"}}

    field "Monetary Cost" {
        len=1
        possible_values={0:"normal" 1:"low"}}

    field "Unused" {
        len=1
        possible_values={0:"valid"}}

} // end of field "Type of Service" -----
```

FIG. 8D

```
compound_field "Flags" {
    len=3
    display=hex
    field "Reserved" {
        len=1
        possible_values={0:"valid"}}
    field "Fragment" {
        len=1
        possible_values={0:"May Fragment" 1:"Don't Fragment"}}
    field "Fragments" {
        len=1
        possible_values={0:"last" 1:"more"}}
}

compound_field "Options" { // -----
    optional = (valueof(field "Header Length") > 5)
    compound_field "Option Tuple"
    {
    len=8;
    display=hex
    field "Copied Flag" {
        len=1
        possible_values={0:"not copied into all fragments
        0:"not copied into all fragments on fragmentation"
        1:"copied into all fragments on fragmentation"
        }}
    field "Option Class" {
        len=2
        possible_values={
        0:"control"
        1:"reserved for future use"
        2:"debugging and measurement"
        3:"reserved for future use"
        }}
    }
```

FIG. 8E

```
field "Option Number" {
    len=5
    field_type=mulopt_other_fld
    possible_values={
        0:"end of option list"
        1:"no operation"
        2:"security"
        3:"loose source routing"
        4:"internet timestamp"
        7:"record route"
        8:"stream ID"
        9:"strict source routing"
    }
}

switch(valueof(field "Option Number")){
    0:null
    1:null
    2:compound_field "Security"
    3:compound_field "Loose Source Routing"
    9:compound_field "Strict Source Routing"
    7:compound_field "Record Route"
    8:compound_field "Stream ID"
    4:compound_field "Internet Timestamp"
}

compound_field "Security"{
    len=80
    field "Security Length" {
        len=8
        possible_values={0x0b:"valid"}}}
```

FIG. 8F

```
field "Security: Security"
field "Compartments" {len=16}
field "Handling Restrictions" {len=16}
field "Transmission Control Code" {len=24}

field "Security Security" {
len=16
possible_values={
0:"unclassified"
0xf135:"confidential"
0x0789a:"EFTO"
0xbc4d:"MMMM"
0x5e26:"PROG"
0xaf13:"Restricted"
0xd788:"Secret"
0x6bc5:"Top Secret"
0x35e2,0x9af1,0x4d78,0x24bd,0x135e,0x89af,0xc4d6,0xe26b:
"Reserved for future use"
}}
}

compound_field "Strict Source Routing" {
len=(valueof(field "Strict Source Routing Length")-1)*8
field "Strict Source Routing Length" {len=8 }
field "Strict Source Routing Pointer" {len=8 minValue=4}
repeat {
len=(valueof(field "Strict Source Routing Length")-3)*8
field "source address" {len=32 display=ipv4}
}
}
```

FIG. 8G

```
compound_field "Loose Source Routing" {
  len=(valueof(field "Loose Source Routing Length")-1)*8
  field "Loose Source Routing Length" {len=8 }
  field "Loose Source Routing Pointer" {len=8 minValue=4}
  repeat {
    len=(valueof(field "Loose Source Routing Length")-3)*8
    field "source address" {len=32 display=ipv4}
  }
}

compound_field "Record Routing" {
  len=(valueof(field "Record Routing Length")-1)*8
  field "Record Routing Length" {len=8 }
  field "Record Routing Pointer" {len=8 minValue=4}
  repeat {
    len=(valueof(field "Record Routing Length")-3)*8
    field "source address" {len=32 display=ipv4}
  }
}

compound_field "Stream ID" {
  len=24
  field "Stream ID Length" {
    len=8
    default=4
    possible_values=
      0x04:"valid"
  }
}

field "ID" {len=16 default=4}
}
```

FIG. 8H

```
compound_field "Internet Timestamp" {  
    field "Internet Timestamp Length" {len=8 }  
    field "Internet Timestamp Pointer" {len=8 }  
    field "Overflow" {  
        len=4  
        desc="number of IP modules that cannot register timestamps"  
    }  
    field "Flag" {  
        len=4  
        possible_values=1  
        0:"time stamps only, stored in consecutive 32-bit words"  
        1:"each timestamp is preceded with internet address"  
        3:"the internet address fields are prespecified"  
    }  
}  
  
    } // end of Internet Timestamp  
} // end of field "option" -----  
  
} // end of field "IP" -----  
  
field "Protocol" {  
  
    len=8  
    default=255  
    field_type = mulopt_prtcl_fld  
    display=hex  
    possible_values={ // -----  
        0:"HOPOPT (IPv6 Hop-by-Hop Option)"  
        1:"ICMP (Internet Control Message)"  
        2:"IGMP (Internet Group Management)"  
        3:"GGP (Gateway-to-Gateway)"
```


FIG. 8I

- 4:"IP (IP in IP encapsulation)"
- 5:"ST (Stream)"
- 6:"TCP"
- 7:"CBT"
- 8:"EGP (Exterior Gateway Protocol)"
- 9:"IGP (any private interior gateway)"
- 10:"BBN-RCC-MON (BBN RCC Monitoring)"
- 11:"NVP-II (Network Voice Protocol)"
- 12:"PUP"
- 13:"ARGUS"
- 14:"EMCON"
- 15:"XNET (Cross Net Debugger)"
- 16:"CHAOS"
- 17:"UDP"
- 18:"MUX (Multiplexing)"
- 19:"DCN-MEAS (DCN Measurement Subsystems)"
- 20:"HMP (Host Monitoring)"
- 21:"PRM (Field Radio Measurement)"
- 22:"XNS-IDP (XEROX NS IDP)"
- 23:"TRUNK-1 (Trunk-1)"
- 24:"TRUNK-2 (Trunk-2)"
- 25:"LEAF-1 (Leaf-1)"
- 26:"LEAF-2 (Leaf-2)"
- 27:"RDP (Reliable Data Protocol)"
- 28:"IRTP (Internet Reliable Transaction)"
- 29:"ISO-TP4 (ISO Transport Protocol Class 4)"
- 30:"NETBLT (Bulk Data Transfer Protocol)"
- 31:"MFE-NSP (MFE Network Services Protocol)"
- 32:"MERIT-INP (MERIT Internodal Protocol)"
- 33:"SEP (Sequential Exchange Protocol)"
- 34:"3PC (Third Party Connect Protocol)"
- 35:"IDPR (Inter-Domain Policy Routing Protocol)"
- 36:"XTP (XTP)"

FIG. 8J

- 37:"DDP (Datagram Delivery Protocol)"
- 38:"IDPR-CMTP (IDPR Control Message Transport Protocol)"
- 39:"TP++ (TP++ Transport Protocol)"
- 40:"IL (IL Transport Protocol)"
- 41:"IPv6 (IPv6)"
- 42:"SDRP (Source Demand Routing Protocol)"
- 43:"IPv6-Route (Routing Header for IPv6)"
- 44:"IPv6-Frag (Fragment Header for IPv6)"
- 45:"IDRP (Inter-Domain Routing Protocol)"
- 46:"RSVP (Reservation Protocol)"
- 47:"GRE (General Routing Encapsulation)"
- 48:"MHRP (Mobile Host Routing Protocol)"
- 49:"BNA"
- 50:"ESP (Encap Security Payload for IPv6)"
- 51:"AH (Authentication Header for IPv6)"
- 52:"I-NLSP (Integrated Net Layer Security TUBA)"
- 53:"SWIPE (IP with Encryption)"
- 54:"NARP (NBMA Address Resolution Protocol)"
- 55:"MOBILE (IP Mobility)"
- 56:"TLSP (Transport Layer Security Protocol)"
- 57:"SKIP"
- 58:"IPv6-ICMP (ICMP for IPv6)"
- 59:"IPv6-NoNxt (No Next Header for IPv6)"
- 60:"IPv6-Opts (Destination Options for IPv6)"
- 61:"AHP (Any Host Internal Protocol)"
- 62:"CFTP (CFTP)"
- 63:"ALN (Any Local Network)"
- 64:"SAT-EXPAK (SATNET and Backroom EXPAK)"
- 65:"KRYPTOLAN (Kryptolan)"
- 66:"RVD (MIT Remote Virtual Disk Protocol)"
- 67:"IPPC (Internet Pluribus Field Core)"
- 68:"ADFS (Any Distributed File System)"
- 69:"SAT-MON (SATNET Monitoring)"
- 70:"VISA (VISA Protocol)"

FIG. 8K

- 71:"IPCV (Internet Field Core Utility)"
- 72:"CPNX (Computer Protocol Network Executive)"
- 73:"CPHB (Computer Protocol Heart Beat)"
- 74:"WSN (Wang Span Network)"
- 75:"PVP (Field Video Protocol)"
- 76:"BR-SAT-MON (Backroom SATNET Monitoring)"
- 77:"SUN-ND (SUN ND PROTOCOL-Temporary)"
- 78:"WB-MON (WIDEBAND Monitoring)"
- 79:"WB-EXPAK (WIDEBAND EXPAK)"
- 80:"ISO-IP (ISO Internet Protocol)"
- 81:"VMTP"
- 82:"SECURE-VMTP"
- 83:"VINES"
- 84:"TTP"
- 85:"NSFNET-IGP"
- 86:"DGP (Dissimilar Gateway Protocol)"
- 87:"TCF"
- 88:"EIGRP"
- 89:"OSPF"
- 90:"Sprite-RPC (Sprite RPC Protocol)"
- 91:"LARP (Locus Address Resolution Protocol)"
- 92:"MTP (Multicast Transport Protocol)"
- 93:"AX.25 (AX.25 Frames)"
- 94:"IPIP (IP-within-IP Encapsulation Protocol)"
- 95:"MICP (Mobile Internetworking Control Pro)"
- 96:"SCC-SP (Semaphore Communications Sec. Pro)"
- 97:"ETHERIP (Ethernet-within-IP Encapsulation)"
- 98:"ENCAP (Encapsulation Header)"
- 99:"APES (Any Private Encryption Scheme)"
- 100:"GMTP"
- 101:"IFMP (Ipsilon Flow Management Protocol)"
- 102:"PNNI (PNNI over IP)"
- 103:"PIM (Protocol Independent Multicast)"
- 104:"ARIS"

FIG. 8L

```
105:"SCPS"
106:"QNX"
107:"A/N (Active Networks)"
108:"IPPCP (IP Payload Compression Protocol)"
109:"SNP (Sitara Networks Protocol)"
110:"Compaq-Peer (Compaq Peer Protocol)"
111:"IPX-in-IP"
112:"VRRP (Virtual Router Redundancy Protocol)"
113:"PGM (PGM Reliable Transport Protocol)"
114:"AHOP (Any 0-hop protocol)"
115-254:"Unassigned"
255:"Reserved"
}} // end of field "protocol" -----

} // end of field "IP header" -----

836
  \ payload "IP Payload" { // -----
    / switch(valueof(field "Protocol")) {
838      1:protocol "ICMP"
        2:protocol "IGMP"
        6:protocol "TCP"
        17:protocol "UDP"
        46:protocol "RSVP"
        47:protocol "GRE"
        89:protocol "OSPF"
      }
  } // end of packet "IP payload" -----
}
```

FIG. 9A

```
*/
/*****
Constants
*****/
//===== LCP Options =====
int OPT_PASSIVE = 1; // Don't die if we don't get a response
int OPT_RESTART = 2; // Treat 2nd OPEN as DOWN, UP
int OPT_SILENT = 4; // Wait for peer to speak first

//===== LCP States =====
int INITIAL_STATE = 0;
int STARTING_STATE = 1;
int CLOSED_STATE = 2;
int STOPPED_STATE = 3;
int CLOSING_STATE = 4;
int STOPPING_STATE = 5;
int REQ_SENT_STATE = 6;
int ACK_RCVD_STATE = 7;
int ACK_SENT_STATE = 8;
int OPENED_STATE = 9;

//===== LCP Events =====
int UP_EVENT = 0;
int DOWN_EVENT = 1;
int OPEN_EVENT = 2;
int CLOSE_EVENT = 3;
int TIMEOUT_POS_EVENT = 4;
```

FIG. 9B

```

int TIMEOUT_NEG_EVENT = 5;
int RCV_CFG_REQ_POS_EVENT = 6;
int RCV_CFG_REQ_NEG_EVENT = 7;
int RCV_CFG_ACK_EVENT = 8;
int RCV_CFG_NACK_EVENT = 9;
int RCV_TERM_REQ_EVENT = 10;
int RCV_TERM_ACK_EVENT = 11;
int RCV_UNKN_CODE_EVENT = 12;
int RCV_CODE_REJECT_POS_EVENT = 13;
int RCV_CODE_REJECT_NEG_EVENT = 14;
int RCV_ECHO_REQ_REPLY_EVENT = 15;

```

```

//===== Transition Constants =====

```

```

int TRANSITION_CNST_FALSE = 0;
int TRANSITION_CNST_TRUE = 1;

```

```

902_fsm "LCP"
{

```

```

904_state INITIAL_STATE

```

```

926 {

```

```

928 _UP_EVENT -

```

```

_OPEN_EVENT InitialStOpenEvent

```

```

} // INITIAL

```

924

CLOSED_STATE
STARTING_STATE

INITIAL_STATE

```
switch (enabledSilent())
```

016

FIG. 9E

```

    }

    CLOSE_EVENT
    RCV_CFG_REQ_POS_EVENT
    RCV_CFG_REQ_NEG_EVENT
    RCV_CFG_ACK_EVENT
    RCV_CFG_NACK_EVENT
    RCV_CODE_REJECT_POS_EVENT
    RCV_CODE_REJECT_NEG_EVENT
    RCV_ECHO_REQ_REPLY_EVENT
    } // STOPPED

912 state CLOSING_STATE
{
    DOWN_EVENT
    OPEN_EVENT
    TIMEOUT_POS_EVENT
    TIMEOUT_NEG_EVENT
    RCV_TERM_ACK_EVENT
    RCV_CODE_REJECT_POS_EVENT
    RCV_CODE_REJECT_NEG_EVENT
    RCV_ECHO_REQ_REPLY_EVENT
    } // CLOSING

    CLOSED_STATE
    ACK_SENT_STATE
    REQ_SENT_STATE
    STOPPED_STATE
    STOPPED_STATE
    STOPPED_STATE
    STOPPED_STATE
    STOPPED_STATE

    StoppedStRcvCfgReqPosEv
    StoppedStRcvCfgReqNegEv
    StoppedStRcvCfgAckEv
    StoppedStRcvCfgNackEv
    RcvCodeRejectPosEv
    StoppedStRcvCodeRejectNegEv
    RcvEchoReqReplyEv

    ClosingStDownEv
    ClosingStOpenEv
    ClosingStTimeoutPosEv
    ClosingStTimeNegEv
    ClosingStRcvTermAckEv
    RcvCodeRejectPosEv
    RcvCodeRejectNegEv
    RcvEchoReqReplyEv

    INITIAL_STATE
    STOPPING_STATE
    CLOSING_STATE
    CLOSED_STATE
    CLOSED_STATE
    CLOSING_STATE
    CLOSED_STATE
    CLOSING_STATE

```

FIG. 9F

```

914 state STOPPING_STATE
{
    DOWN_EVENT
    CLOSE_EVENT
    TIMEOUT_POS_EVENT
    TIMEOUT_NEG_EVENT
    RCV_TERM_ACK_EVENT
    RCV_CODE_REJECT_POS_EVENT
    RCV_CODE_REJECT_NEG_EVENT
    RCV_ECHO_REQ_REPLY_EVENT
} // STOPPING

    StoppingStDownEv
    StoppingStTimeoutPosEv
    StoppingStTimeNegEv
    StoppingStRcvTermAckEv
    RcvCodeRejectPosEv
    RcvCodeRejectNegEv
    RcvEchoReqReplyEv

    STARTING_STATE
    CLOSING_STATE
    STOPPING_STATE
    STOPPED_STATE
    STOPPED_STATE
    STOPPING_STATE
    STOPPED_STATE
    STOPPING_STATE

916 state REQ_SENT_STATE
{
    DOWN_EVENT
    CLOSE_EVENT
    TIMEOUT_POS_EVENT
    TIMEOUT_NEG_EVENT
    RCV_CFG_REQ_POS_EVENT
    RCV_CFG_REQ_NEG_EVENT
    RCV_CFG_ACK_EVENT
    RCV_CFG_NACK_EVENT
    RCV_CODE_REJECT_POS_EVENT
    RCV_CODE_REJECT_NEG_EVENT
    RCV_ECHO_REQ_REPLY_EVENT
} // REQ_SENT_STATE

    ReqSentStDownEv
    ReqSentStCloseEv
    ReqSentStTimeoutPosEv
    ReqSentStTimeNegEv
    ReqSentStRcvCfgReqPosEv
    ReqSentStRcvCfgReqNegEv
    ReqSentStRcvCfgAckEv
    ReqSentStRcvCfgNackEv
    RcvCodeRejectPosEv
    RcvCodeRejectNegEv
    RcvEchoReqReplyEv

    STARTING_STATE
    CLOSING_STATE
    REQ_SENT_STATE
    STOPPED_STATE
    ACK_SENT_STATE
    REQ_SENT_STATE
    ACK_RCVD_STATE
    REQ_SENT_STATE
    REQ_SENT_STATE
    STOPPED_STATE
    REQ_SENT_STATE

```

FIG. 9G

```

918 state ACK_RCVD_STATE
{
    DOWN_EVENT
    CLOSE_EVENT
    TIMEOUT_POS_EVENT
    TIMEOUT_NEG_EVENT
    RCV_CFG_REQ_POS_EVENT
    RCV_CFG_REQ_NEG_EVENT
    RCV_CFG_ACK_EVENT
    RCV_CFG_NACK_EVENT
    RCV_TERM_REQ_EVENT
    RCV_TERM_ACK_EVENT
    RCV_UNKN_CODE_EVENT
    RCV_CODE_REJECT_POS_EVENT
    RCV_CODE_REJECT_NEG_EVENT
    RCV_ECHO_REQ_REPLY_EVENT
} // ACK_RCVD_STATE

920 state ACK_SENT_STATE
{
    DOWN_EVENT
    CLOSE_EVENT
    TIMEOUT_POS_EVENT
    TIMEOUT_NEG_EVENT
    AckRcvdStDownEv
    AckRcvdStCloseEv
    AckRcvdStTimeoutPosEv
    AckRcvdStTimeoutNegEv
    AckRcvdStRcvCfgReqPosEv
    AckRcvdStRcvCfgReqNegEv
    AckRcvdStRcvCfgAckEv
    AckRcvdStRcvCfgNackEv
    AckRcvdStRcvTermReqEv
    RcvCodeRejectPosEv
    RcvCodeRejectNegEv
    RcvEchoReqReplyEv
    AckSentStDownEv
    AckSentStCloseEv
    AckSentStTimeoutPosEv
    AckSentStTimeoutNegEv
    STARTING_STATE
    CLOSING_STATE
    REQ_SENT_STATE
    STOPPED_STATE
    OPENED_STATE
    ACK_RCVD_STATE
    REQ_SENT_STATE
    REQ_SENT_STATE
    REQ_SENT_STATE
    REQ_SENT_STATE
    ACK_RCVD_STATE
    REQ_SENT_STATE
    STOPPED_STATE
    ACK_RCVD_STATE
    STARTING_STATE
    CLOSING_STATE
    ACK_SENT_STATE
    STOPPED_STATE

```

FIG. 9H

| | | |
|---------------------------|-------------------------|----------------|
| RCV_CFG_REQ_POS_EVENT | AckSentStRcvCfgReqPosEv | ACK_SENT_STATE |
| RCV_CFG_REQ_NEG_EVENT | AckSentStRcvCfgReqNegEv | REQ_SENT_STATE |
| RCV_CFG_ACK_EVENT | AckSentStRcvCfgAckEv | OPENED_STATE |
| RCV_CFG_NACK_EVENT | AckSentStRcvCfgNackEv | ACK_SENT_STATE |
| RCV_TERM_REQ_EVENT | AckSentStRcvTermReqEv | REQ_SENT_STATE |
| RCV_CODE_REJECT_POS_EVENT | RcvCodeRejectPosEv | ACK_SENT_STATE |
| RCV_CODE_REJECT_NEG_EVENT | RcvCodeRejectNegEv | STOPPED_STATE |
| RCV_ECHO_REQ_REPLY_EVENT | RcvEchoReqReplyEv | ACK_SENT_STATE |

} // ACK_SENT_STATE

922

state OPENED_STATE

{

DOWN_EVENT

OPEN_EVENT

switch(enabledRestart ())

{

TRANSITION_CNST_TRUE: OpenedStOpenEvEnabledRestartTRUE OPENED_STATE

}

OpenedStDownEv

STARTING_STATE

FIG. 9I

| | | |
|---------------------------|----------------------------|----------------|
| CLOSE_EVENT | OpenedStCloseEv | CLOSING_STATE |
| RCV_CFG_REQ_POS_EVENT | OpenedStCfgReqPosEv | ACK_SENT_STATE |
| RCV_CFG_REQ_NEG_EVENT | OpenedStRcvCfgReqNegEv | REQ_SENT_STATE |
| RCV_CFG_ACK_EVENT | OpenedRcvCfgAckEv | REQ_SENT_STATE |
| RCV_CFG_NACK_EVENT | OpenedStRcvCfgNackEv | REQ_SENT_STATE |
| RCV_TERM_REQ_EVENT | OpenedStRcvTermReqEv | STOPPING_STATE |
| RCV_TERM_ACK_EVENT | OpenedStRcvTermAckEv | REQ_SENT_STATE |
| RCV_CODE_REJECT_POS_EVENT | RcvCodeRejectPosEv | OPENED_STATE |
| RCV_CODE_REJECT_NEG_EVENT | OpenedStRcvCodeRejectNegEv | STOPPING_STATE |
| RCV_ECHO_REQ_REPLY_EVENT | RcvEchoReqReplyEv | OPENED_STATE |
| } // OPENED_STATE | | |
| } | | |

FIG. 10

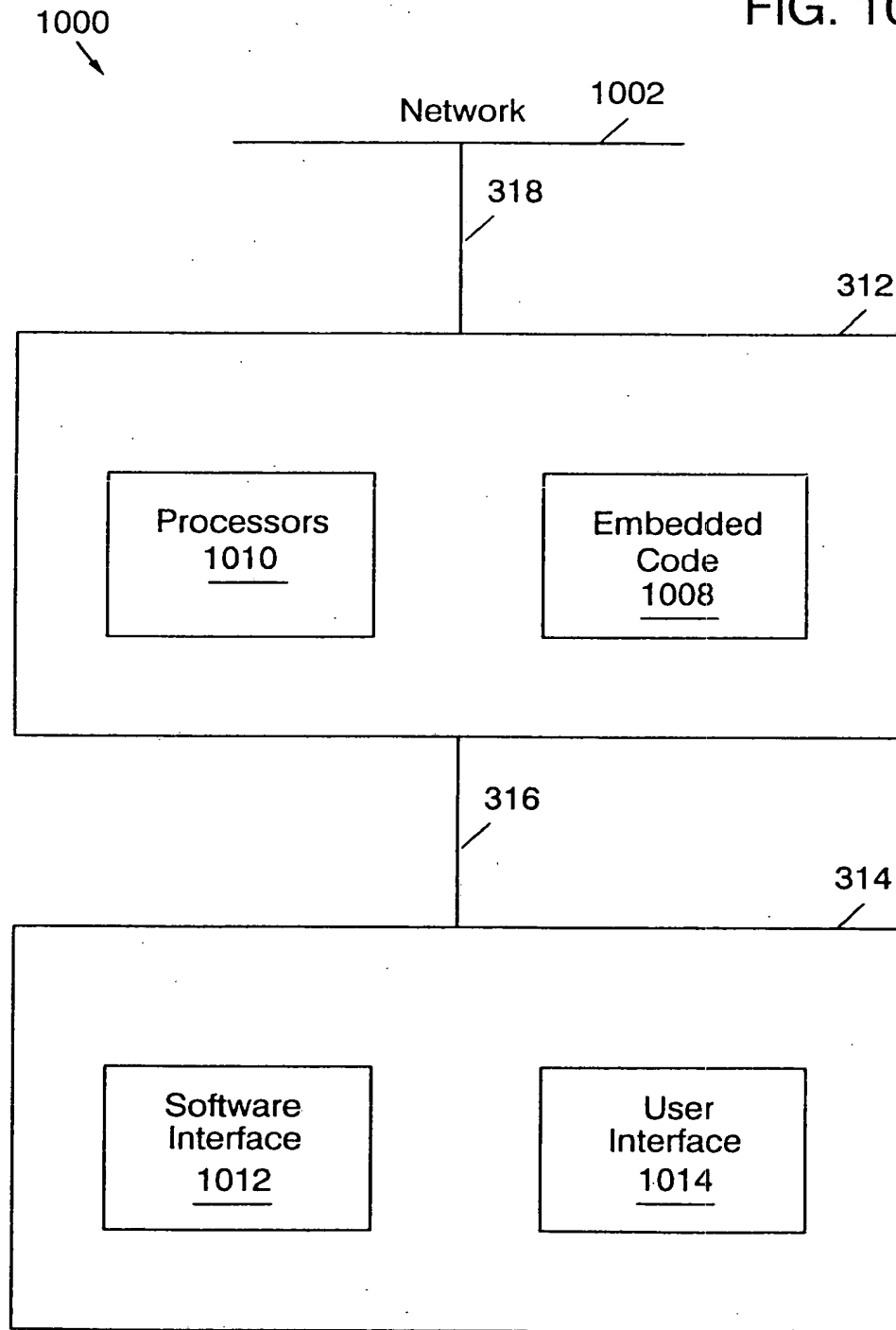


FIG. 11

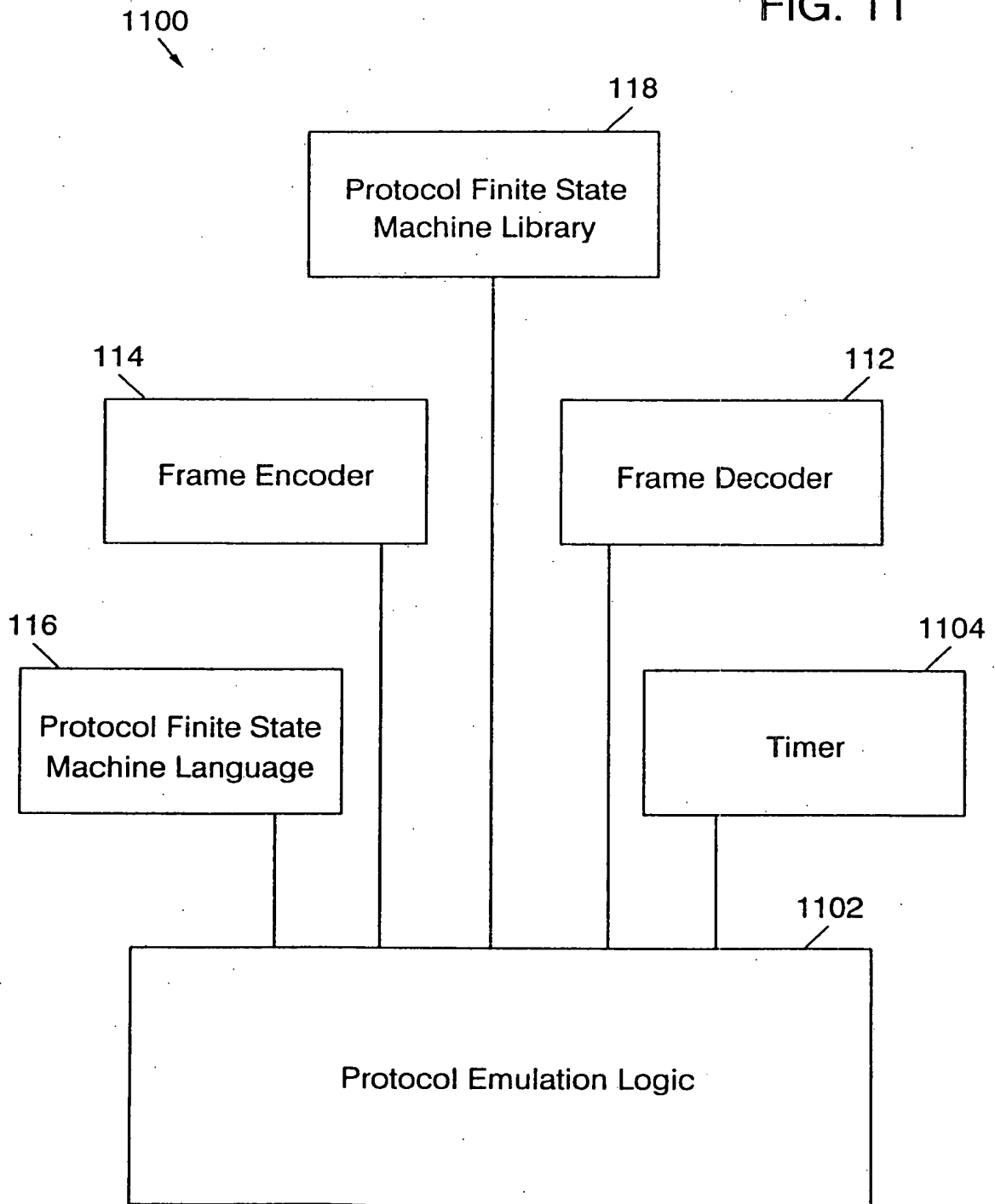


FIG. 12A

1202

| Events | State | | | | | |
|--------|---------|----------|-------------|---------|---------|----------|
| | 0 | 1 | 2 | 3 | 4 | 5 |
| | Initial | Starting | Closed | Stopped | Closing | Stopping |
| Up | 2 | tc1,6 | - | - | - | - |
| Down | - | - | 0 | 1 | 0 | 1 |
| Open | 1 | 1 | tc1,3/tc2,6 | tc3,3r | 5r | 5r |
| Close | 0 | 0 | 2 | 2 | 4 | 4 |
| TO+ | - | - | - | - | 4 | 5 |
| TO- | - | - | - | - | 2 | 3 |
| RCR+ | - | - | 2 | 8 | 4 | 5 |
| RCR- | - | - | 2 | 6 | 4 | 5 |
| RCA | - | - | 2 | 3 | 4 | 5 |
| RCN | - | - | 2 | 3 | 4 | 5 |
| RTR | - | - | 2 | 3 | 4 | 5 |
| RTA | - | - | 2 | 3 | 2 | 3 |
| RUC | - | - | 2 | 3 | 4 | 5 |
| RXJ+ | - | - | 2 | 3 | 4 | 5 |
| RXJ- | - | - | 2 | 3 | 2 | 3 |
| RXR | - | - | 2 | 3 | 4 | 5 |

FIG. 12B

1204

| Events | State | | | |
|--------|----------|----------|----------|--------|
| | 6 | 7 | 8 | 9 |
| | Req-Sent | Ack-Rcvd | Ack-Sent | Opened |
| Up | - | - | - | - |
| Down | 1 | 1 | 1 | 1 |
| Open | 6 | 7 | 8 | tc3,9r |
| Close | 4 | 4 | 4 | 4 |
| TO+ | 6 | 6 | 8 | - |
| TO- | 3p | 3p | 3p | - |
| RCR+ | 8 | 9 | 8 | 8 |
| RCR- | 6 | 7 | 6 | 6 |
| RCA | 7 | 6 | 9 | 6 |
| RCN | 6 | 6 | 8 | 6 |
| RTR | 6 | 6 | 6 | 5 |
| RTA | 6 | 6 | 8 | 6 |
| RUC | 6 | 7 | 8 | 9 |
| RXJ+ | 6 | 6 | 8 | 9 |
| RXJ- | 3 | 3 | 3 | 5 |
| RXR | 6 | 7 | 8 | 9 |

[p] Passive option

[r] Restart option

[s] Silent option

// Transition conditions

tc1 - (enabledSilent() == TRUE)

tc2 - (enabledSilent() == FALSE)

tc3 - (enabledRestart() == TRUE)

FIG. 13

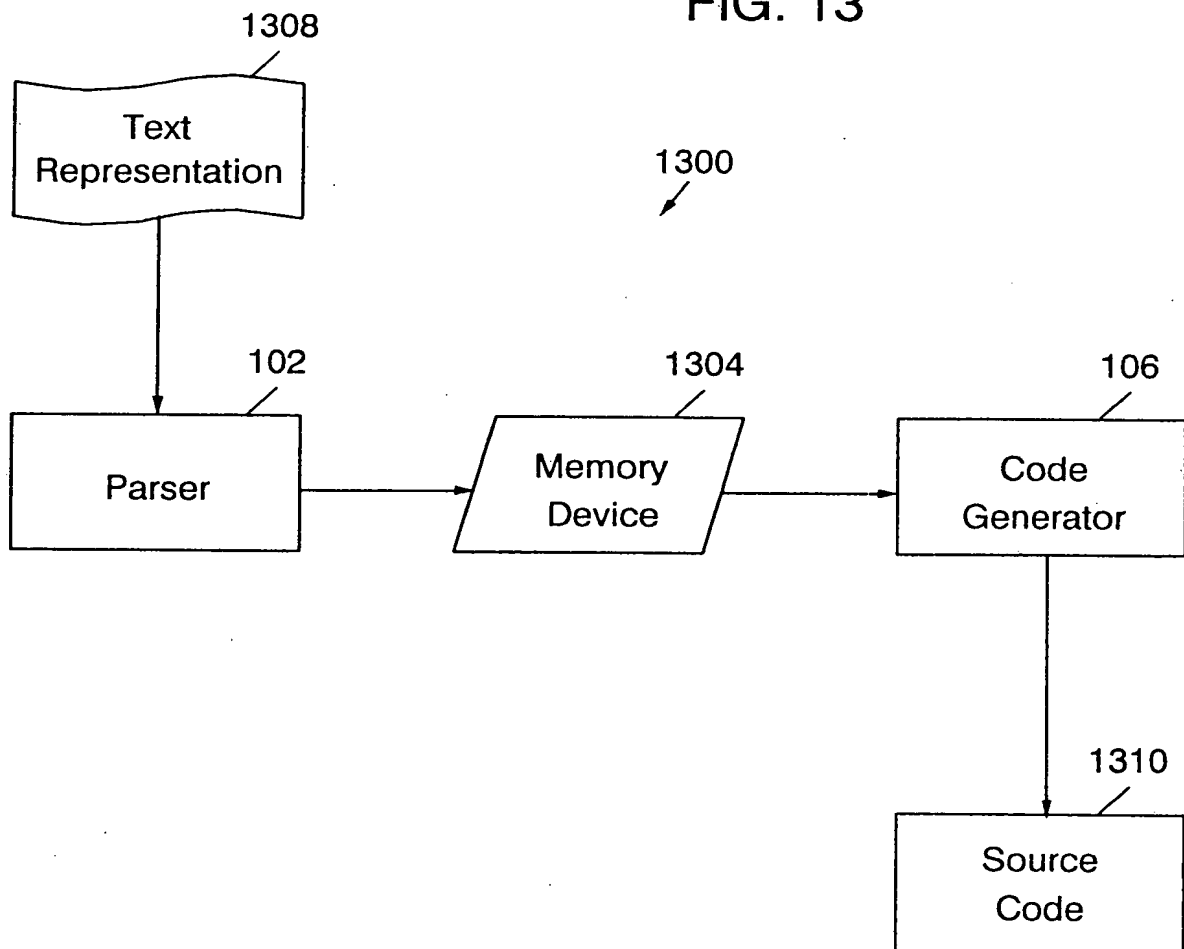


FIG. 14

| | |
|-------------|-------------|
| FIG. 14A | FIG. 14B |
|-------------|-------------|

FIG. 14A

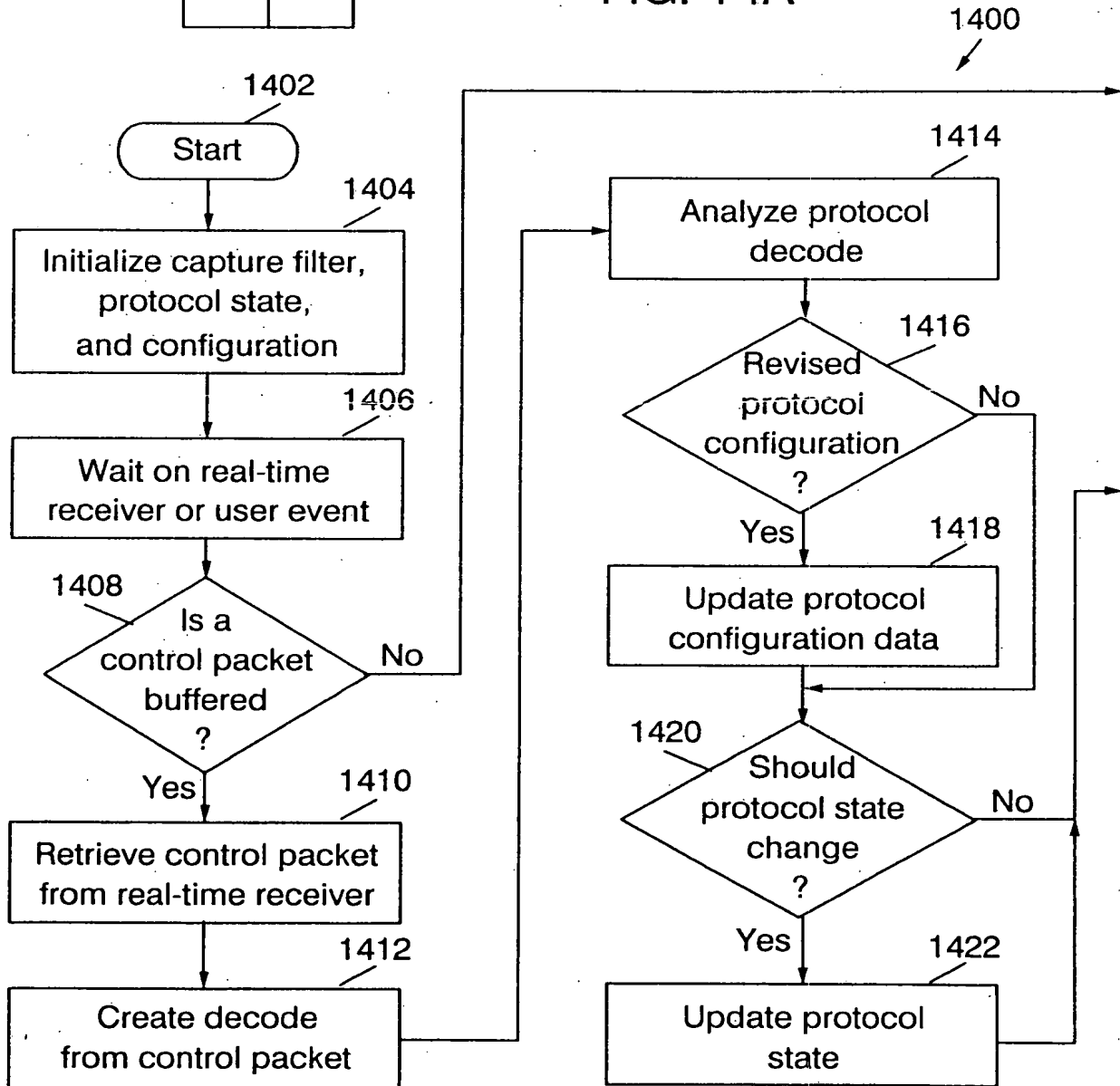


FIG. 14B

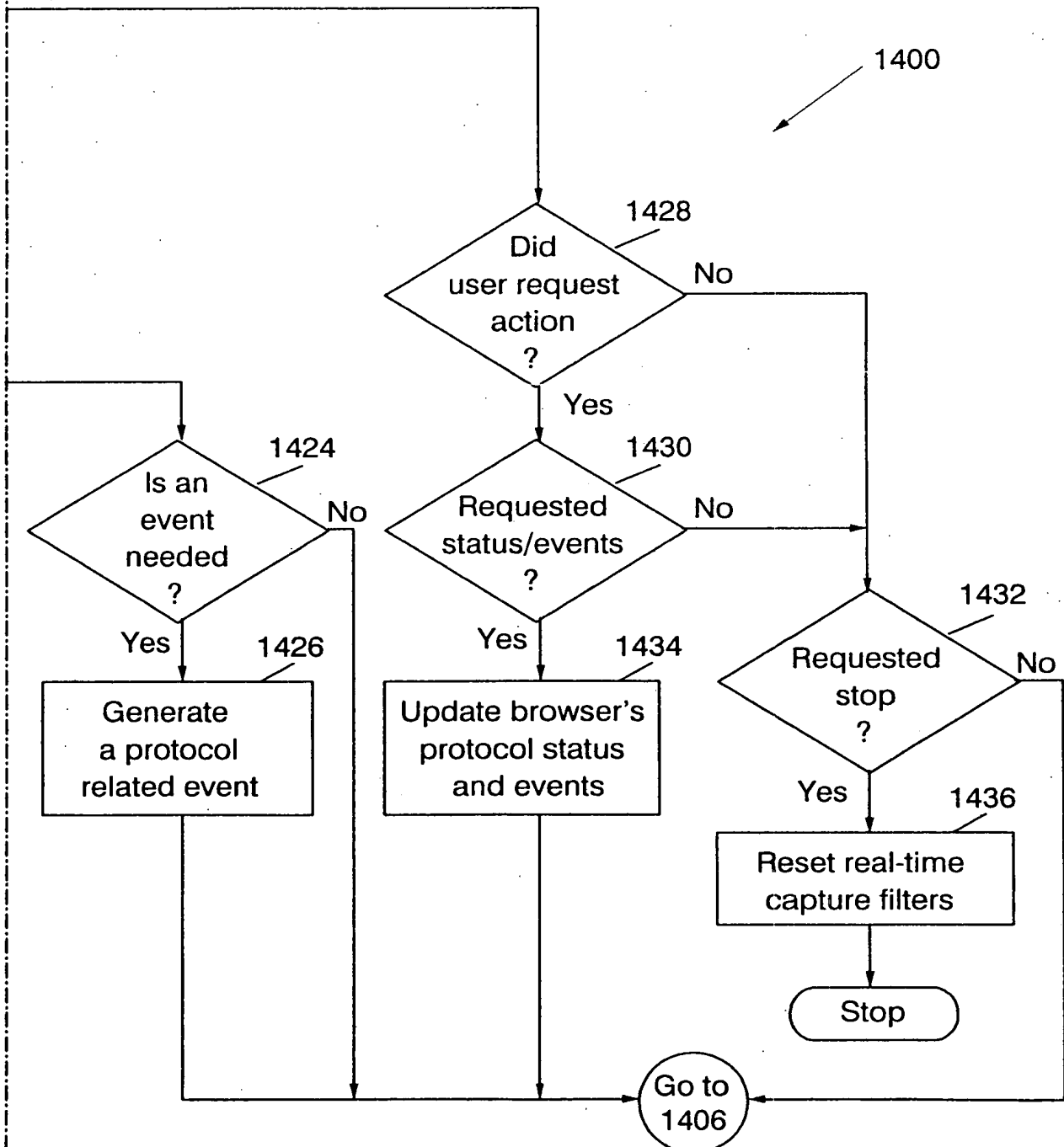


FIG. 15

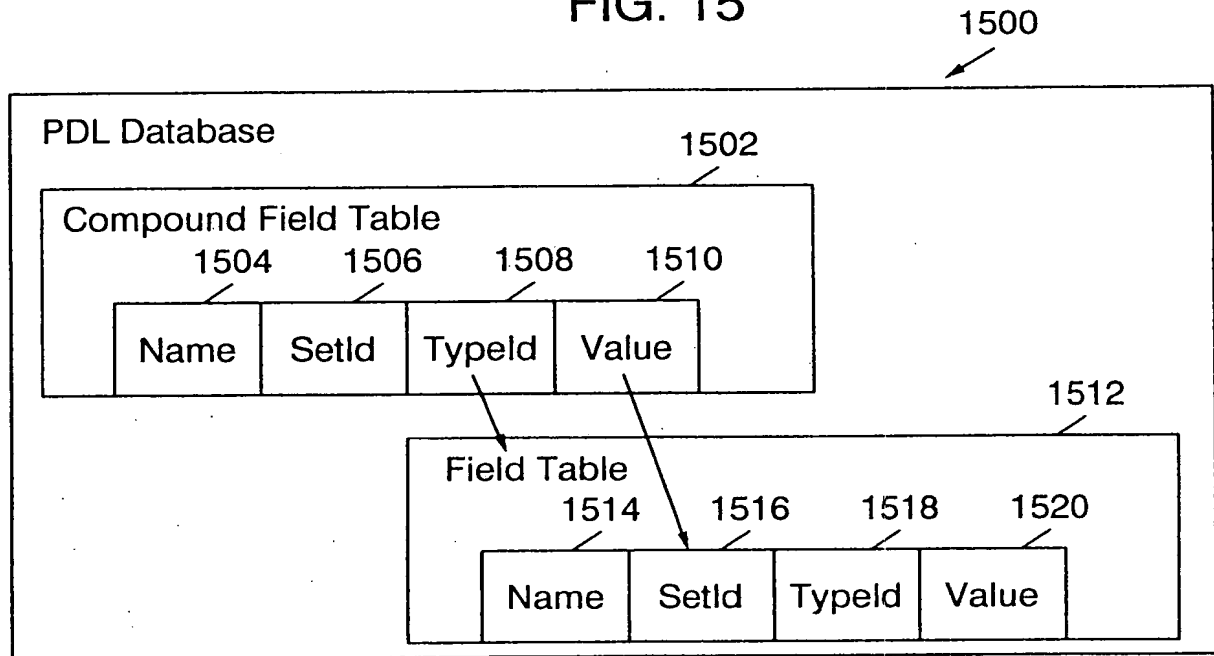


FIG. 18

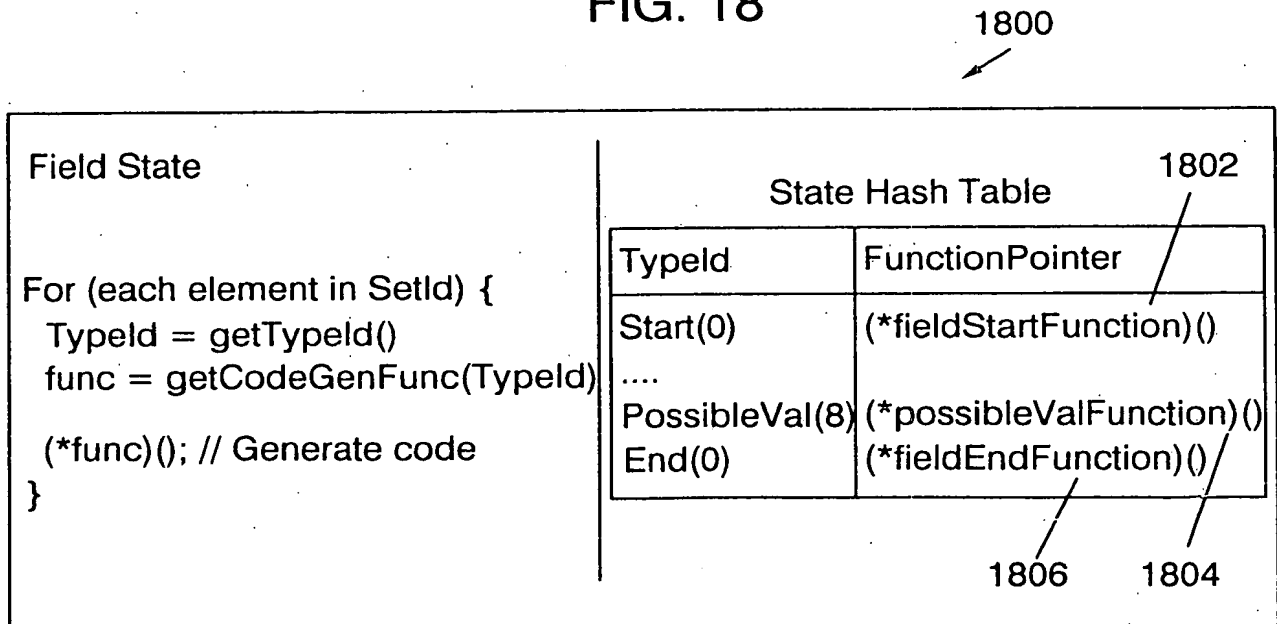


FIG. 16

1600

| | | | | | |
|------|--------|----------------|----------------|-----------|---------|
| 1610 | 1602 | 1604 | 1606 | 1608 | |
| | Typeld | TypeName | TableName | Type | Comment |
| | 0 | Start | | Control | |
| | 0 | ProtocolNames | ProtocolNames | | |
| | 1 | Protocol | Protocol | Compound | |
| | 2 | Header | Header | Compound | |
| | 3 | Payload | Payload | Compound | |
| | 4 | Trailer | Trailer | Compound | |
| | 5 | CompountField | CompountField | Compound | |
| | 6 | Repeat | Repeat | Compound | |
| | 7 | Switch | Switch | Compound | |
| | 8 | PossibleValues | PossibleValues | Attribute | |
| | 9 | Field | Field | Simple | |
| | 10 | Len | Len | Attribute | |
| | 11 | MinLen | Len | Attribute | |
| | 12 | MaxLen | Len | Attribute | |
| | 13 | Display | Display | Attribute | |
| | 14 | Encode | Encode | Attribute | |
| | 15 | Default | Default | Attribute | |
| | 16 | Break | Len | Attribute | |
| | 17 | Optional | Len | Attribute | |
| | 18 | Offset | Len | Attribute | |
| | 19 | Name | Name | Attribute | |
| | 20 | Description | Description | Attribute | |
| 1612 | 21 | String | String | | |
| | 22 | End | End | Control | |
| | 23 | DecisiveField | Field | Simple | |
| | 24 | FieldType | Attribute | Attribute | |
| | 28 | MinVal | Attribute | Attribute | |
| | 29 | MaxVal | Attribute | Attribute | |
| | 30 | Count | Len | Attribute | |

FIG. 17

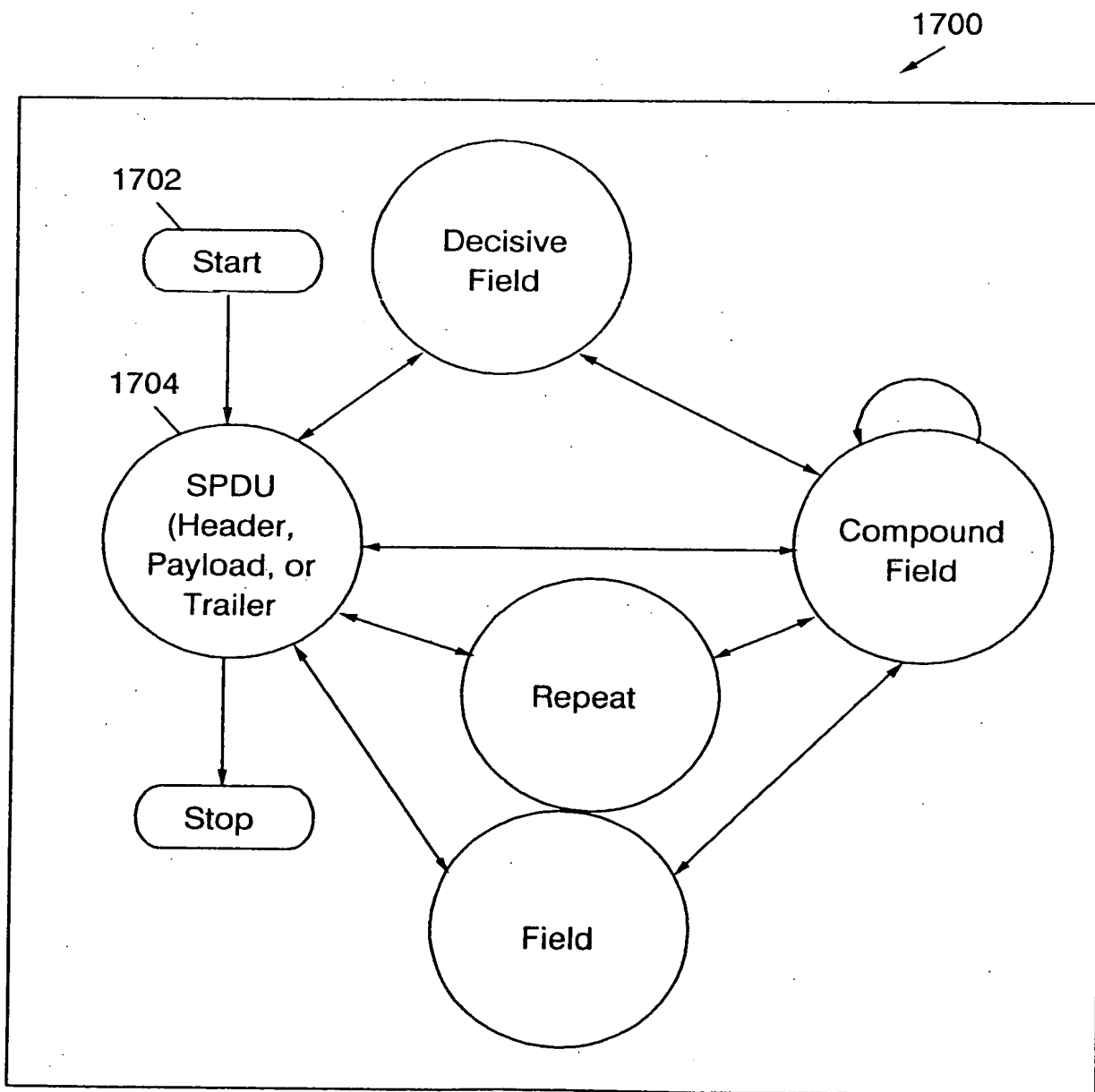


FIG. 19

1900

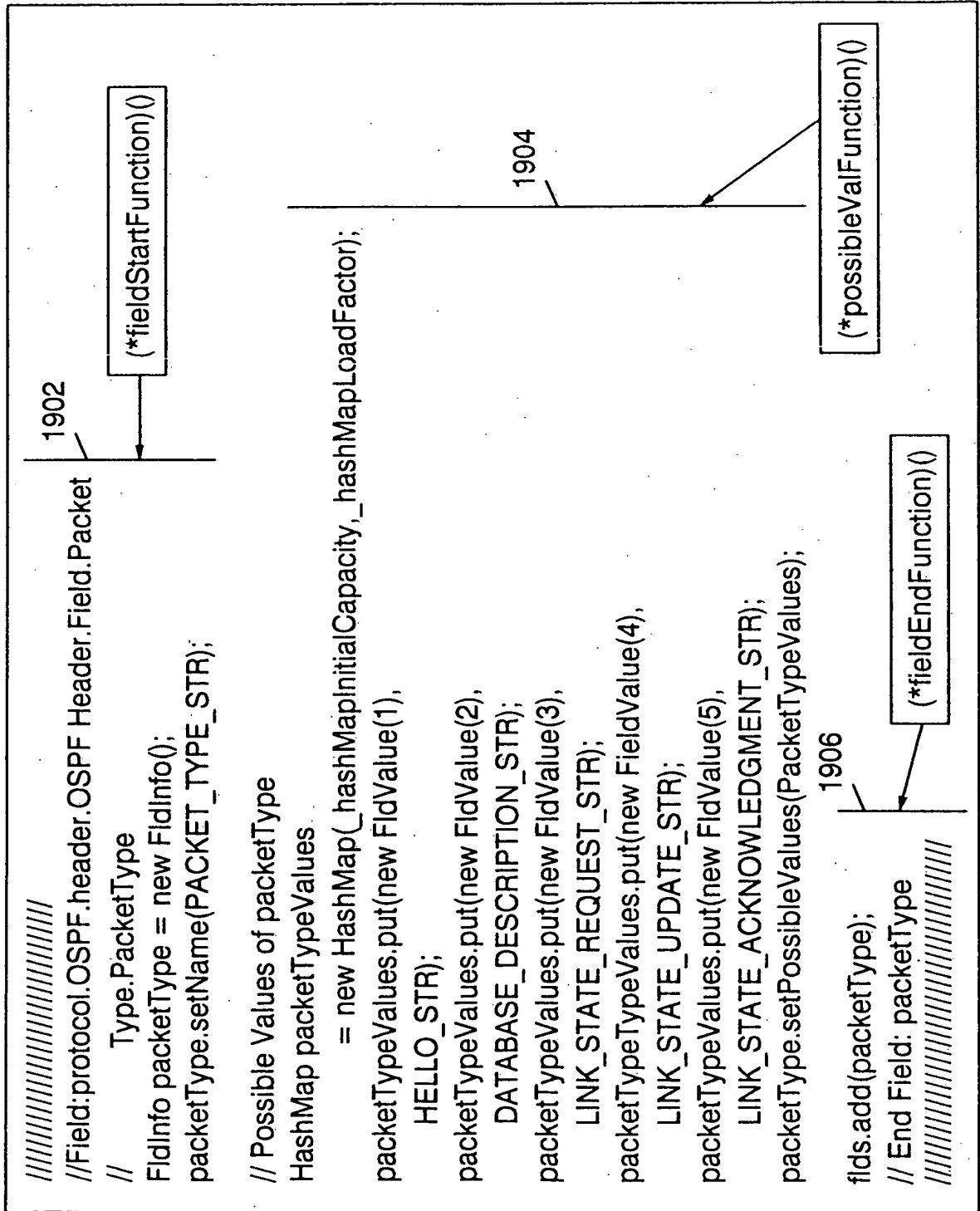


FIG. 20

2000

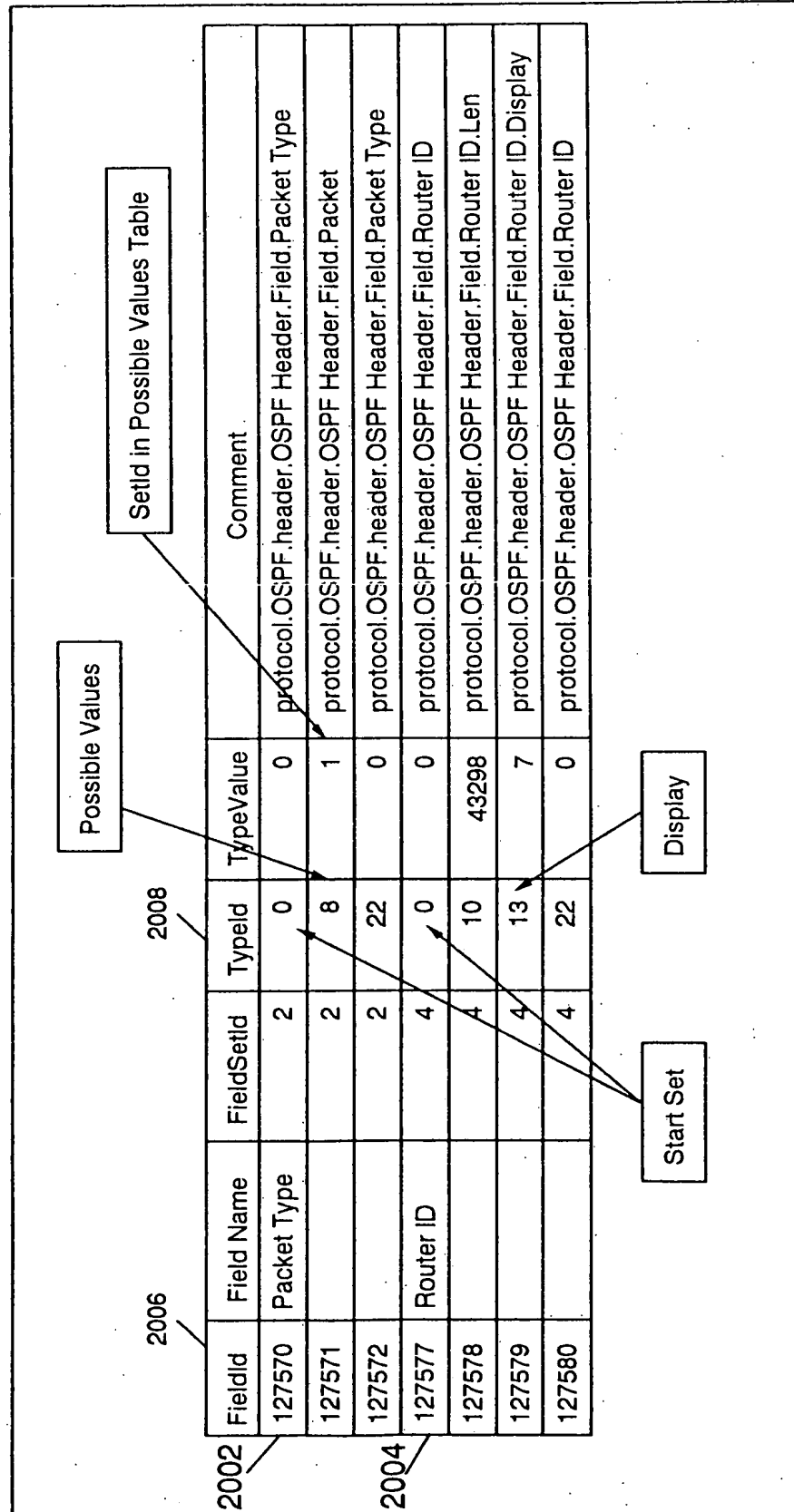


FIG. 21

| Protocol | Status | Time | Mode |
|----------|-------------|----------------------|----------|
| LCP | Open | 09/04/00 08:01:03 AM | Emulate |
| IPCP | Negotiating | 09/04/00 08:01:07 AM | Monitor |
| MPLSCP | Closed | 09/04/00 08:01:05 AM | Monitor |
| RSVP | N/a | 09/04/00 08:01:00 AM | Disabled |

FIG. 22

| | Rx1 | Rx2 |
|-----------------------------------|--------------|--------------|
| Current Status | Open | Negotiating |
| Loop-back | No | No |
| Unanswered Echo Requests | 0 | 0 |
| Maximum Receive Unit | 512 | 1500 |
| Asynchronous Character Map | 0 | 0 |
| Authentication Protocol | Unknown | Unknown |
| Quality Protocol | N/a | N/a |
| Protocol Field Compression | Off | Off |
| Address/Control Field Compression | Off | Off |
| Magic Number | 0xFF | 0x1FF |
| FCS Alternative | CCITT 32-bit | CCITT 32-bit |

FIG. 23A

FIG. 23

FIG. 23A
FIG. 23B

| Time | Recvr | Protocol | MsgType | Event | Synopsis |
|-------------------------|-------|----------|-----------|-------------------------|--|
| 09/04/00 08:01:01 AM | Rx1 | LCP | ConfigReq | Protocol Negotiating | ACComp:On,Pcomp:On,Magic.0x1ab82049 |
| 09/04/00 08:01:01 AM | Rx2 | LCP | ConfigAck | Open Protocol | ACComp:On,Pcomp:On,Magic.0x4e3d9123 |
| 09/04/00 08:01:02 AM | Rx2 | LCP | ConfigReq | Protocol Negotiating | ACComp:On,Pcomp:On,Magic.0x1ab82049 |
| 09/04/00 08:01:03 AM | Rx1 | LCP | ConfigAck | Open Protocol | ACComp:On,Pcomp:On,Magic.0x1ab82049 |
| 09/04/00 08:01:04 AM | Rx2 | IPCP | ConfigReq | Protocol Negotiating | Local IP: 198.85.38.199 |
| 09/04/00 08:01:06 AM | Rx1 | IPCP | ConfigAck | Open Protocol | Local IP: 198.85.38.199 |
| 09/04/00 08:01:06 AM | Rx1 | IPCP | ConfigReq | Protocol Negotiating | Local IP: 198.85.34.35 |
| 09/04/00 08:01:06 AM | Rx2 | IPCP | ConfigAck | Open Protocol | Local IP: 198.85.34.35 |
| 09/04/00 08:01:10 AM | Rx2 | MPLSCP | ConfigReq | Protocol Negotiating | |
| 09/04/00 08:01:12 AM | Rx2 | MPLSCP | TermReq | Close Protocol | |
| 09/04/00 08:11:01 AM | Rx1 | RSVP | Rx1 | Rx1 | Resv Request <session: 198.85.34.45 UDP port. 14> |

| | | | | | |
|-------------------------|-----|------|---------|----------------|--|
| 09/04/00 08:11:03 AM | Rx1 | RSVP | Rx1 | Rx1 | Resv Confirm <session: 198.85.34.45 UDP port 14> |
| 09/04/00 08:11:04 AM | Rx2 | RSVP | Rx2 | Rx2 | Path Request <session: 198.85.38.199 UDD port 0x82A> |
| 09/04/00 08:11:06 AM | Rx1 | RSVP | Rx1 | Rx1 | Resv Error <session: 198.85.38.199 UDP port 0x82A> |
| 09/04/00 09:21:10 AM | Rx2 | RSVP | Rx2 | Rx2 | Path Request <session: 198.85.38.199 UDP port 0x82A> |
| 09/04/00 09:21:12 AM | Rx2 | RSVP | Rx2 | Rx2 | Resv Confirm <session: 198.85.38.199 UPD port 0x82A> |
| 09/04/00 09:21:30 AM | Rx1 | RSVP | Rx1 | Rx1 | Path Tear <session: 198.85.34.45 UPD port 14> |
| 09/04/00 09:21:32 AM | Rx2 | RSVP | Rx2 | Rx2 | Resv Tear <session: 198.85.34.45 UPD port 14> |
| 09/04/00 09:21:32 AM | Rx2 | RSVP | Rx2 | Rx2 | Resv Tear <session: 198.85.34.45 UPD port 14> |
| 09/04/00 11:44:30 PM | Rx1 | IPCP | TermReq | Close Protocol | |
| 09/04/00 11:44:31 PM | Rx1 | IPCP | TermAck | Close Protocol | |
| 09/04/00 11:44:32 PM | Rx1 | LCP | TermReq | Close Protocol | |
| 09/04/00 11:44:33 PM | Rx2 | LCP | TermAck | Close Protocol | |

FIG. 23B